SAS® DISASTER RECOVERY AND MITIGATION INTELLIGENCE SOLUTION BRIEF

IA Homeland Security and Emergency Management Division
August 26, 2009

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SAS Disaster Recovery and Mitigation Intelligence Solution for Iowa Homeland Security and Emergency Management Division (HSEMD)

Summary

HSEMD, Rebuild IA Office (RIO), IA Finance Authority and IA Department of Economic Development along with other state and local agencies are focused on the state-wide recovery effort after the floods, tornadoes and severe weather of 2008. This responsibility includes managing the process of thousands of individual projects designed to allow the state to recover from the devastating impacts of the storms.

Currently this process is managed using Excel spreadsheets, a transactional system at the federal level (NEMIS) and a statewide financial system. Each of these systems provides a separate piece to the puzzle into the comprehensive picture of the disaster recovery process.

This means that the already limited staff time is used to sift through literally thousands of lines of data in order to answer even the most basic questions. The concept of analyzing such data is almost impossible due to the cumbersome process involved in exploring the information. Continuing in this manner will lengthen the recovery process considerably.

The traditional method of simply processing and tracking transactions will not allow for the recovery from these events to occur quickly enough. A slow recovery means a smaller tax base for the state due to fewer people returning and fewer businesses reopening. It can also impact the effects of future disasters on the state. The sooner repairs and mitigation efforts are completed, the better prepared Iowa will be for the next storm.

As such, the HSEMD seeks the ability to rapidly report on and analyze this data in order to determine the impacts of policy decisions on the recovery and mitigation process.

The Solution

SAS has staff with significant disaster recovery experience and to address these challenges, SAS proposes an end-to-end approach with our Enterprise Intelligence Platform that integrates individual technology components within your existing IT infrastructure into one unified system. This single technology approach offers you a more complete and cost effective solution than piecing together stand alone products. Unlike other vendors, SAS takes business intelligence to an entirely new level by providing the entire spectrum of an enterprise intelligence platform, from data integration to analysis, and reporting all in a single system with integrated metadata and centralized management.

Enterprise Data Integration
SAS provides native access to virtually any enterprise data source and will not require any changes to the current systems. SAS can link to all the data sources that the HSEMD may need to access and bring the information into a centralized repository. This will decrease staff time spent searching through massive spreadsheets of data.

Enterprise Business Intelligence
SAS also provides the capability to manipulate, query and report on this information. SAS will allow HSEMD to display the information in any number of ways including by congressional district, census block, zip code, state legislative district, parish, etc.

This ad hoc query, reporting and varied display capability will allow HSEMD to answer questions immediately from Congress, Governor, Legislators and applicants. HDEMD will also be able to quickly review changes in projects without searching through multiple data sources. This cuts down on the reporting requirements for each agency, allowing them to focus on their programs instead of constantly providing information to decision makers. These agencies will be able to spend more time serving their constituencies.

Advanced Analytics
SAS also provides world class analytics that can be applied to the data. Analysis of things such as the impact of 406 mitigation decisions on the infrastructure recovery process or future disaster costs based on econometric time series analysis.

This will allow HSEMD to forecast the impact of mitigation projects on the overall cost of the recovery process, predict the length of time for the recovery process and identify areas where the process can be shortened and improved, allowing funds to flow back into destroyed communities faster.

When all these elements are individually optimized and successfully integrated within your environment, you can consistently and efficiently create the intelligence required to reduce costs, improve interoperability and better meet today's requirements as well as scale to accommodate future needs. The HSEMD has multiple responsibilities in the disaster process. Along with infrastructure recovery, other parts of the agency are working on housing issues, mitigation process and community redevelopment. Expanding the SAS solution into these areas will create an even clearer picture of the overall recovery process.

Fees

$485,000

Fees for the solution include the software and services needed to provide the data integration/data quality, reporting with GIS integration and analysis.

Potential Procurement Options

Leverage existing MLA with IA DAS
SAS has an existing MLA in place with IA DAS that began in 1993 (IA DOT has licensed SAS since 1984). Software can be added to this agreement via a Supplement agreement that attaches new software to the existing MLA. SAS' direct licensing model is subscription based. 98% of our customers renew their software and 65% expand their license on an annual basis.

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Leverage Insight contract with the State of IA
IDR has used this purchasing option for their SAS licenses for both software and services.
- Insight holds a statewide procurement contract
- Terms are identical to those found in our GSA schedule contract which includes a 50 year license to use the software. Maintenance is not required but recommended.

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Snapshot of SAS utilization in IA government

Iowa Department of Revenue
The Iowa Department of Revenue's Tax Research and Program Analysis Section began using SAS BI Server in July 2006 for its Tax Research Data Warehouse. The solution supports a variety of tax research activities, including:
> Estimating the fiscal impacts of proposed law changes.
> Making economic and revenue forecasts.
> Developing statistical reports.
> Responding to ad hoc requests for information.

In addition to warehousing data, the SAS BI Server software provides the capability for accessing data stored on other hardware platforms and in different formats.

The Department reports one of the greatest benefits of the SAS solution is the increased ability to respond quickly to ad hoc requests for information from the legislature.

In June 2009 IDR has expanded their SAS partnership by investing in the SAS Enterprise BI solution with the goal of provided public query access to sales, retail and property tax data that will integrate with GIS via a centralized portal.

IA Dept of Administrative Services (ITE)
Uses SAS Activity Based Costing (ABC) technology along with SAS EBI and SAS Data Integration Server

Key Benefits:
With the ABM system, the Iowa ITE can capture and report the cost, revenue, and profit/loss by service to ensure compliance with State requirements that service costs and revenue "break-even" and provide the documentation to audit the service rates. The system depicts cost contributions by labor and non-labor categories and will allow ITE to more comprehensively understand the drivers of its costs. It will permit timely corrections to cross-subsidization costs, vastly reducing the effort required at fiscal year-end to find, correct, and subsequently adjust rates to comply with federal reimbursement requirements. Using the system, ITE managers will be able to track idle capacity metrics and costs and to make decisions about resource re-allocation, outsourcing, and opportunities for further growth.

This knowledge gained from ABCM of actual costs and the resources associated in providing services can be used as the basis for predictive planning. Resource impacts can be determined by working backwards from "what-if" scenarios or externally driven workload changes to the ABCM data.

The implementation of this ABCM system will enable ITE leadership to use actual costs to make budget decisions based upon desired end-states and anticipate changes in customer demand. Armed with these tools, ITE can organize its businesses to better serve customers and establish service rates more closely aligned with costs.

IA DOT

Using SAS for data management, analysis and reporting. Also, use SAS in conjunction with the AASHTO BAMS/DSS solution. BAMS/DSS provides a complete Trns•port historical database specifically designed to provide decision support in the areas of bid monitoring and evaluation, vendor (contractor, subcontractor, and DBE) and market analysis, item price estimation, and the planning and budgeting process solution.

IA Workforce Development

Using SAS for research and analysis of UAI wage records. Lots of analysis is needed to evaluate program performance and monitor individual who enter and re-enter program. SAS helps them manage the vast amount of data and reports that they need to generate.